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Time: 18:05:00

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Application#	Patent#	PG Pub#	Status	Date Filed	Title	Examiner Name	Inventor Name
60881000	Not Issued		159	01/18/2007	MULTI-FACETED IMPROVEMENT DESIGNS FOR A DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM		WIGGS, B. RYLAND
11668403	Not Issued	20070151280	061	01/29/2007	HEAT PUMP DEHUMIDIFICATION SYSTEM	ALI,MOHAMMAD	WIGGS, B. RYLAND
61021496	Not Issued		159	01/16/2008	COOLING MODE AND HEATING MODE SUPPLEMENT FOR A DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM DESIGN		WIGGS, B. RYLAND
12016714	Not Issued	20080173425	030	01/18/2008	MULTI-FACETED DESIGNS FOR A DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM	KOAGEL,JONATHAN	WIGGS, B. RYLAND
61028632	Not Issued		159	02/14/2008	OIL RETURN AND SUPERHEAT DESIGN FOR DX SYSTEMS		WIGGS, B. RYLAND
61049960	Not Issued		159	05/02/2008	OIL RETURN AND SUPERHEAT DESIGN FOR DX AND OTHER HEAT PUMP SYSTEMS		WIGGS, B. RYLAND
61046660	Not Issued		159	04/21/2008	DX SYSTEM HEAT TO COOL AND LINE INSULATION DESIGN IMPROVEMENTS		WIGGS, B. RYLAND
61048821	Not Issued		159	04/29/2008	ADVANCED DX SYSTEM DESIGN IMPROVEMENTS		WIGGS, B. RYLAND
61051156	Not Issued		159	05/07/2008	OIL RETURN DESIGN FOR DX AND OTHER HEAT PUMP SYSTEMS		WIGGS, B. RYLAND
61053097	Not Issued		159	05/14/2008	DX SYSTEM HEAT TO COOL MODE INTERIOR DEFROST DESIGN		WIGGS, B. RYLAND
12533652	Not Issued		020	07/31/2009	DX SYSTEM HIGH-PRESSURE RELIEF/BYPASS AND VERY DEEP WELL DX TUBING AND INSULATION DESIGN		WIGGS, B. RYLAND
61234887	Not Issued		020	08/18/2009	SHALLOW WELL GEOTHERMAL POWER GENERATING SYSTEM		WIGGS, B. RYLAND
61230676	Not Issued		020	07/31/2009	DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM WITH A HIGH-LEVEL HEAT DISSIPATER, WITH HEATING MODE SUPPLEMENT, WITH AN AIR-SOURCE HEAT PUMP DX CONVERSION KIT, WITH SINGLE WELL DX SYSTEM DESIGNS, AND WITH A SOLAR ASSISTED DX TO WATER TO AIR DESIGN		WIGGS, B. RYLAND
61240032	Not Issued		020	09/04/2009	COLD WATER AND DX GEOTHERMAL CONDENSATION GENERATING SYSTEM		WIGGS, B. RYLAND
12559325	Not Issued		020	09/14/2009	GEOTHERMAL FLUID HEAD PRESSURE POWER GENERATING SYSTEM		WIGGS, B. RYLAND
12582658	Not Issued		020	10/20/2009	DEEP WELL DIRECT EXCHANGE POWER GENERATOR		WIGGS, B. RYLAND
61248737	Not Issued		020	10/05/2009	DIRECT EXCHANGE GEOTHERMAL REFRIGERANT POWER GENERATING SYSTEM		WIGGS, B. RYLAND
61259905	Not Issued		020	11/10/2009	DEEP WELL DIRECT EXCHANGE POWER GENERATOR WITH DOUBLE U BEND DISCHARGE		WIGGS, B. RYLAND
10073515	6971248		150	02/11/2002	METHOD AND APPARATUS FOR INHIBITING ICE ACCUMULATION IN HVAC SYSTEMS	JONES,MELVIN	WIGGS, B. RYLAND
10127517	6789608		150	04/22/2002	THERMALLY EXPOSED, CENTRALLY INSULATED GEOTHERMAL HEAT EXCHANGE UNIT	LEO,LEONARD	WIGGS, B. RYLAND

<u>60456335</u>	Not Issued		159	03/20/2003	DEEP WELL/LONG TRENCH EXPANSION HEATING/COOLING SYSTEM		WIGGS, B. RYLAND
<u>60471585</u>	Not Issued		159	05/19/2003	DEEP WELL/LONG TRENCH DIRECT EXPANSION HEATING/COOLING SYSTEM AND RETROFIT DESIGN		WIGGS, B. RYLAND
<u>10616701</u>	<u>7234314</u>		150	07/10/2003	GEO THERMAL HEATING AND COOLING SYSTEM WITH SOLAR HEATING	ALI,MOHAMMAD	WIGGS, B. RYLAND
<u>60722353</u>	Not Issued		159	09/30/2005	MIGHTY MISSILE DX HEATING/COOLING SYSTEM VERTICAL WELL COPPER TUBING INSERTION MEANS		WIGGS, B. RYLAND
<u>11249586</u>	Not Issued	20060086121	061	10/13/2005	CAPILLARY TUBE/PLATE REFRIGERANT/AIR HEAT EXCHANGER FOR USE IN CONJUNCTION WITH A METHOD AND APPARATUS FOR INHIBITING ICE ACCUMULATION IN HVAC SYSTEMS	ALI,MOHAMMAD	WIGGS, B. RYLAND
<u>11252031</u>	Not Issued	20060096309	071	10/17/2005	METHOD AND APPARATUS FOR INHIBITING FROZEN MOISTURE ACCUMULATION IN HVAC SYSTEMS	JONES,MELVIN	WIGGS, B. RYLAND
<u>60722352</u>	Not Issued		159	09/30/2005	MIGHTY MISSILE WATER SOURCE HEATING/COOLING SYSTEM VERTICAL WELL WATER TRANSPORT TUBING INSERTION MEANS		WIGGS, B. RYLAND
<u>11288605</u>	Not Issued		164	11/29/2005	DIRECT EXCHANGE HEATING MODE ONLY HEATING MEANS FOR VAPOR AND/OR LIQUID AND/OR FLUID AND/OR SOLID AND/OR ENGINE JACKET WATER AND/OR PAVEMENT, WITH OPTIONAL HEAT AND/OR WASTE HEAT SUPPLEMENT	JONES,MELVIN	WIGGS, B. RYLAND
<u>11773202</u>	Not Issued	20080016894	030	07/03/2007	ADVANCED DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM DESIGN	DUKE,EMMANUEL	WIGGS, B. RYLAND
<u>60949910</u>	Not Issued		159	07/16/2007	EXTERIOR AIR-SOURCE HEAT EXCHANGE SUPPLEMENT FOR A DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM DESIGN		WIGGS, B. RYLAND
<u>60950053</u>	Not Issued		159	07/16/2007	GEO THERMAL DIRECT EXCHANGE HEATING/COOLING SYSTEM DESIGN IMPROVEMENTS		WIGGS, B. RYLAND
<u>60974598</u>	Not Issued		159	09/24/2007	HEAT TRANSFER REFRIGERANT TRANSPORT TUBING COATING FOR A DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM AND COATING FOR A REFRIGERANT TO AIR HEAT EXCHANGER		WIGGS, B. RYLAND
<u>60979264</u>	Not Issued		159	10/11/2007	ADVANCED DX SYSTEM DESIGN IMPROVEMENTS		WIGGS, B. RYLAND
<u>60807712</u>	Not Issued		159	07/18/2006	EXTERIOR AIR-SOURCE HEAT EXCHANGE SUPPLEMENT FOR A DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM DESIGN		WIGGS, B. RYLAND
<u>60806739</u>	Not Issued		159	07/07/2006	ADVANCED DIRECT EXCHANGE GEOTHERMAL HEATING/COOLING SYSTEM DESIGN		WIGGS, B. RYLAND
<u>11392034</u>	Not Issued		161	03/29/2006	DX HEATING/COOLING SYSTEM DESIGNS	JONES,MELVIN	WIGGS, B. RYLAND
<u>11363777</u>	Not Issued		041	02/28/2006	CEMENTITIOUS GROUT AND METHODS OF USING SAME	MARCANTONI,PAUL	WIGGS, B. RYLAND
<u>10815530</u>	<u>7191604</u>	0	150	04/01/2004	HEAT PUMP DEHUMIDIFICATION SYSTEM	ALI,MOHAMMAD	WIGGS, B. RYLAND
<u>10804698</u>	<u>7578140</u>		150	03/19/2004	DEEP WELL/LONG TRENCH DIRECT EXPANSION HEATING/COOLING SYSTEM	JONES,MELVIN	WIGGS, B. RYLAND
<u>60547979</u>	Not Issued		159	02/26/2004	DEEP WELL DIRECT EXPANSION SYSTEM DEHUMIDIFIER		WIGGS, B. RYLAND
<u>61318675</u>	Not Issued		020	03/29/2010	AIR-SOURCE HEAT PUMP PEAK INHIBITING SYSTEM DESIGN		WIGGS, B. RYLAND

61312645	Not Issued		020	03/10/2010	FREQUENT SHORT-CYCLE ZERO PEAK HEAT PUMP DEFROSTER		WIGGS, B. RYLAND
60986707	Not Issued		159	11/09/2007	DX SYSTEM WITH FILTERED SUCTION LINE AND OIL PROVISIONS		WIGGS, B. RYLAND
60986459	Not Issued		159	11/08/2007	DOUBLE DX HYDRONIC SYSTEM		WIGGS, B. RYLAND
12267036	Not Issued	20090120606	030	11/07/2008	DOUBLE DX HYDRONIC SYSTEM	ALI,MOHAMMAD	WIGGS, B. RYLAND
12267252	Not Issued	20090120120	030	11/07/2008	DX SYSTEM WITH FILTERED SUCTION LINE, LOW SUPERHEAT, AND OIL PROVISIONS	JONES,MELVIN	WIGGS, B. RYLAND
61118675	Not Issued		159	12/01/2008	DEEP WELL LIQUID FLOW ADJUSTABLE NOZZLE, FLEXIBLE PENSTOCK, AND FLEXIBLE LIQUID HEAD PRESSURIZED FLUID CONTAINMENT LOOP BETWEEN TURBINE AND GENERATOR, WITH SUPPLEMENTAL HEAT OPTION		WIGGS, B. RYLAND
61153248	Not Issued		159	02/17/2009	OIL RETURN AND SUPERHEAT DESIGN FOR DX SYSTEMS, AS WELL AS SPECIALTY SUB-SURFACE HEATING/COOLING APPLICATIONS AND THE USE OF A SUPERCRITICAL REFRIGERANT FLUID IN A DEEP WELL DX SYSTEM		WIGGS, B. RYLAND
12689859	Not Issued		020	01/19/2010	COOLING MODE AND HEATING MODE SUPPLEMENT FOR A DIRECT EXCHANGE GEOTHERMAL OR WATER-SOURCE HEATING/COOLING SYSTEM DESIGN		WIGGS, B. RYLAND
61305716	Not Issued		020	02/18/2010	OIL RETURN AND SUPERHEAT DESIGN FOR DX SYSTEMS, AS WELL AS SPECIALTY SUB-SURFACE HEATING/COOLING APPLICATIONS AND THE USE OF A SUPERCRITICAL REFRIGERANT FLUID IN A DEEP WELL DX SYSTEM		WIGGS, B. RYLAND

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